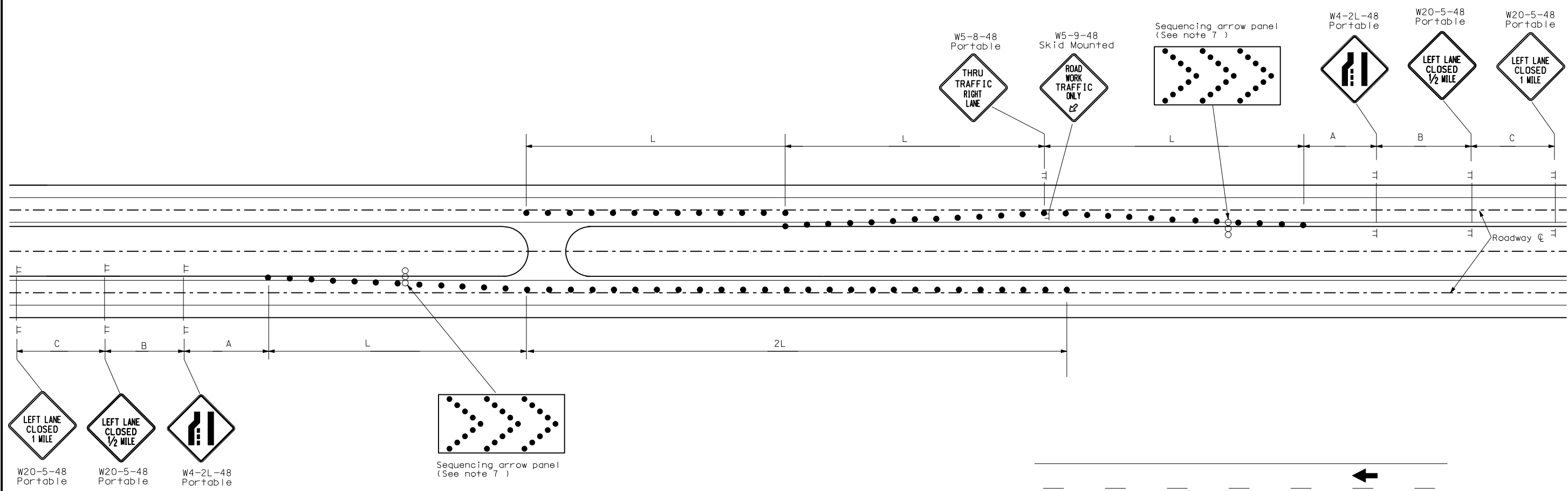
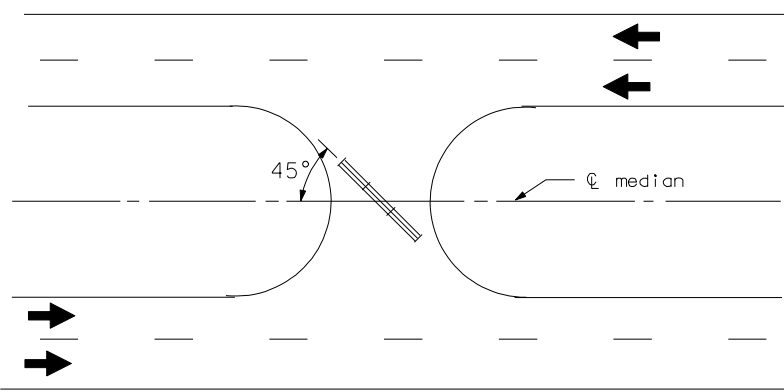


CONSTRUCTION SIGN AND BARRICADE LOCATION DETAILS
CONSTRUCTION TRAFFIC MEDIAN CROSSING

D-704-49



- NOTES:
1. All costs for construction signing and devices at the median crossovers shall be at the contractors expense.
 2. The crossover devices shall be removed daily and crossover shall be barricaded during nonworking hours.
 3. The distance between the work area and the crossover shall be a minimum of 1 mile. If the distance from the work area to an interchange is less than 2 miles the interchange shall be used and no crossover will be allowed.
 4. The road work traffic shall not decelerate until they are well into the crossover exit lane.
 5. Variables:
S = Numerical value of speed limit or 85th percentile.
W = The width of taper
L = Minimum length or taper, or $S \times W$ for freeways, expressways, and all other roads with speeds of 45 MPH or greater, or $W \times S^2 / 60$ for urban, residential, and other streets with speed of 40 MPH or less.
 6. Delineator drums, barricades or cones used for tapering traffic shall be spaced at the dimension "S".
 7. Sequencing Arrow Panels:
Panels should normally be placed at the beginning of the taper. Where shoulder width does not provide sufficient room, the panel should be moved closer to the work area so that it can be placed on the roadway surface.
Type A shall be used on roadways with slow moving traffic speeds and low volume (25 MPH & 750 ADT or less).
Type B shall be used on roadways with moderate traffic speeds and volumes (40 MPH & 5000 ADT or less).
Type C shall be used on roadways with high traffic speeds and volumes (over 40 MPH & 5000 ADT).



BARRICADE LOCATION DETAILS

Barricades shall be installed on the median access when not in uses. The barricades shall be placed at 45 degrees away from approaching traffic.

ADVANCE WARNING SIGN SPACING			
Road Type	Distance Between Signs Min. (ft)		
	A	B	C
Urban - Low Speed (30 mph or less)	150	150	150
Urban - Low Speed (over 30 to 40 mph)	280	280	280
Urban - High Speed (over 40 mph to 50 mph)	360	360	360
Rural - High Speed (over 50 mph to 65 mph)	720	720	720
Urban Expressway and Freeway (55 mph to 60 mph)	850	1350	2200
Rural Expressway and Freeway (70 mph to 75 mph)	1000	1500	2640
Interstate/4-Lane Divided (Maintenance and Surveying)	750	1000	1500

KEY			
	Type I barricade		Work area
	Type II barricade		Flagger
	Type III barricade		Sequencing arrow panel
	Sign		Type A delineator or vertical panels back to back
	Delineator drum		
	Cones		

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
05-01-00	
REVISIONS	
DATE	CHANGE
04-01-04 12-01-04 06-29-05	Rev warning sign spacing PE Stamp added Revised W4-2, Rev. Adv. Warning Table

This document was originally issued and sealed by Mark S Gaydos Registration Number PE-4518, on 06/29/05 and the original document is stored at the North Dakota Department of Transportation